



Report of Analysis

For: AIR-Canister

Ohio EPA DAPC, Lazarus Government Center
Columbus, OH 43215

Attn: Phillip Downey

AK Steel Middletown

Report Date: 6/29/2018

Site: OH-017-AK01
Location: Crawford Str - AKAA03
Client Sample ID:
Received Date: 6/28/2018 10:19:43 AM
Collector: Mike Kramer Hamilton County
Air Type:
Matrix: Air Canisters
Matrix Type:
Lab/Field Comment: Rush

Lab Sample ID: 18062713-01
Collection Date: 6/26/2018 10:20 AM
Filter/Canister #: SN 2083
Air filter vol (m3):
Filter Strips:
Pressure: 0 psi
SampleType: 24 Hr Composite
Client Info:

Analyte	Result	Value		DF	RL	Qual	Date
1,1,1-Trichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1,2,2-Tetrachloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 0.100	0.0800	ppbv	1	0.100	U+	6/28/2018
1,1,2-Trichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1-Dichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1-Dichloroethene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,2,4-Trichlorobenzene	< 0.500	0.100	ppbv	1	0.500	U-	6/28/2018
1,2,4-Trimethylbenzene	0.110	0.110	ppbv	1	0.100		6/28/2018
1,2-Dibromoethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,2-Dichlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloroethane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloropropane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,3,5-Trimethylbenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,3-Butadiene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,3-Dichlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,4-Dichlorobenzene	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,4-Dioxane	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
2,2,4-Trimethylpentane	< 0.200	0.0300	ppbv	1	0.200	U-	6/28/2018
2-Butanone	< 0.500	0.310	ppbv	1	0.500	U+	6/28/2018



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Location: Crawford Str - AKAA03
Client Sample ID:
Received Date: 6/28/2018 10:19:43 AM
Collector: Mike Kramer Hamilton County
Air Type:
Matrix: Air Canisters
Matrix Type:
Lab/Field Comment: Rush

Lab Sample ID: 18062713-01
Collection Date: 6/26/2018 10:20 AM
Filter/Canister #: SN 2083
Air filter vol (m3):
Filter Strips:
Pressure: 0 psi
SampleType: 24 Hr Composite
Client Info:

Analyte	Result	Value	DF	RL	Qual	Date
2-Hexanone	< 0.100	0.0500 ppbv	1	0.100	U-	6/28/2018
2-Methyl-2-propanol	< 0.500	0.0900 ppbv	1	0.500	U+	6/28/2018
3-Chloropropene	< 0.100	0.00 ppbv	1	0.100	U-	6/28/2018
4-Ethyltoluene	< 0.100	0.0100 ppbv	1	0.100	U-	6/28/2018
4-Methyl-2-pentanone	< 0.100	0.0300 ppbv	1	0.100	U+	6/28/2018
Acetone	2.93	2.93 ppbv	1	2.00		6/28/2018
Acrolein	< 0.500	0.200 ppbv	1	0.500	U+	6/28/2018
Acrylonitrile	< 0.200	0.0200 ppbv	1	0.200	U-	6/28/2018
Benzene	1.24	1.24 ppbv	1	0.100		6/28/2018
Benzyl chloride	< 0.200	0.0100 ppbv	1	0.200	U-	6/28/2018
Bromodichloromethane	< 0.100	0.00 ppbv	1	0.100	U-	6/28/2018
Bromoform	< 0.100	0.00 ppbv	1	0.100	U-	6/28/2018
Bromomethane	< 0.100	0.00 ppbv	1	0.100	U-	6/28/2018
Carbon disulfide	< 0.500	0.130 ppbv	1	0.500	U+	6/28/2018
Carbon tetrachloride	0.100	0.100 ppbv	1	0.100	U+	6/28/2018
Chlorobenzene	< 0.100	0.00 ppbv	1	0.100	U-	6/28/2018
Chloroethane	< 0.100	0.00 ppbv	1	0.100	U-	6/28/2018
Chloroform	< 0.200	0.0200 ppbv	1	0.200	U-	6/28/2018
Chloromethane	0.600	0.600 ppbv	1	0.100		6/28/2018
cis-1,2-Dichloroethene	< 0.100	0.00 ppbv	1	0.100	U-	6/28/2018
cis-1,3-Dichloropropene	< 0.100	0.00 ppbv	1	0.100	U-	6/28/2018

8955 E. Main St.
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(614) 644-4247



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Received Date: 6/28/2018 10:19:43 AM
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Matrix Type:
Lab/Field Comment: Rush

Lab Sample ID: 18062713-01
Collection Date: 6/26/2018 10:20 AM
Filter/Canister #: SN 2083
Air filter vol (m3):
Filter Strips:
Pressure: 0 psi
SampleType: 24 Hr Composite
Client Info:

Analyte	Result	Value	DF	RL	Qual	Date
Cumene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Cyclohexane	< 0.100	0.0200	ppbv	1 0.100	U-	6/28/2018
Dibromochloromethane	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Dichlorodifluoromethane	0.470	0.470	ppbv	1 0.100		6/28/2018
Ethanol	3.85	3.85	ppbv	1 1.00		6/28/2018
Ethyl acetate	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Ethylbenzene	< 0.100	0.0300	ppbv	1 0.100	U+	6/28/2018
Hexachlorobutadiene	< 0.200	0.00	ppbv	1 0.200	U-	6/28/2018
Hexane	< 0.100	0.0900	ppbv	1 0.100	U-	6/28/2018
Isopropyl alcohol	< 2.00	0.670	ppbv	1 2.00	U-	6/28/2018
Methyl methacrylate	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Methyl-butyl ether	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Methylene chloride	< 0.100	0.0800	ppbv	1 0.100	U-	6/28/2018
Naphthalene	< 0.500	0.200	ppbv	1 0.500	U-	6/28/2018
n-Butane	0.480	0.480	ppbv	1 0.100		6/28/2018
n-Heptane	< 0.100	0.0400	ppbv	1 0.100	U-	6/28/2018
n-Nonane	< 0.100	0.0200	ppbv	1 0.100	U-	6/28/2018
n-Pentane	0.230	0.230	ppbv	1 0.100		6/28/2018
n-Propylbenzene	< 0.100	0.0100	ppbv	1 0.100	U-	6/28/2018
o-Chlorotoluene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
o-Xylene	< 0.100	0.0400	ppbv	1 0.100	U+	6/28/2018

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Matrix: Air Canisters
Matrix Type:
Lab/Field Comment: Rush

Lab Sample ID: 18062713-01
Collection Date: 6/26/2018 10:20 AM
Filter/Canister #: SN 2083
Air filter vol (m3):
Filter Strips:
Pressure: 0 psi
SampleType: 24 Hr Composite
Client Info:

Analyte	Result	Value	DF	RL	Qual	Date
Propylene	0.550	0.550	ppbv	1 0.200		6/28/2018
Styrene	< 0.100	0.0300	ppbv	1 0.100	U+	6/28/2018
Tetrachloroethylene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Tetrahydrofuran	< 0.200	0.0700	ppbv	1 0.200	U-	6/28/2018
Toluene	0.280	0.280	ppbv	1 0.100		6/28/2018
Total m&p-xylenes	< 0.200	0.0800	ppbv	1 0.200	U+	6/28/2018
trans-1,2-Dichloroethene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
trans-1,3-Dichloropropene	< 0.200	0.00	ppbv	1 0.200	U-	6/28/2018
Trichloroethene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Trichlorofluoromethane	0.230	0.230	ppbv	1 0.200		6/28/2018
Vinyl acetate	0.200	0.200	ppbv	1 0.200	U+	6/28/2018
Vinyl bromide	< 0.200	0.00	ppbv	1 0.200	U-	6/28/2018
Vinyl chloride	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018



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AK Steel Middletown

Report Date: 6/29/2018

Site: OH-017-AK02
Location: Crawford Str. - AKAA01
Client Sample ID:
Received Date: 6/28/2018 10:19:43 AM
Collector: Mike Kramer Hamilton County
Air Type:
Matrix: Air Canisters
Matrix Type:
Lab/Field Comment: Rush

Lab Sample ID: 18062713-02
Collection Date: 6/26/2018 10:45 AM
Filter/Canister #: EPA017619
Air filter vol (m3):
Filter Strips:
Pressure: 0 psi
SampleType: 24 Hr Composite
Client Info:

Analyte	Result	Value		DF	RL	Qual	Date
1,1,1-Trichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1,2,2-Tetrachloroethane	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,1,2-Trichloro-1,2,2-Trifluoroethane	< 0.100	0.0800	ppbv	1	0.100	U+	6/28/2018
1,1,2-Trichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1-Dichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1-Dichloroethene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,2,4-Trichlorobenzene	< 0.500	0.100	ppbv	1	0.500	U-	6/28/2018
1,2,4-Trimethylbenzene	0.140	0.140	ppbv	1	0.100		6/28/2018
1,2-Dibromoethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,2-Dichlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloroethane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloropropane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,3,5-Trimethylbenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,3-Butadiene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,3-Dichlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,4-Dichlorobenzene	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,4-Dioxane	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
2,2,4-Trimethylpentane	< 0.200	0.0200	ppbv	1	0.200	U-	6/28/2018
2-Butanone	< 0.500	0.340	ppbv	1	0.500	U+	6/28/2018



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Location: Crawford Str. - AKAA01
Client Sample ID:
Received Date: 6/28/2018 10:19:43 AM
Collector: Mike Kramer Hamilton County
Air Type:
Matrix: Air Canisters
Matrix Type:
Lab/Field Comment: Rush

Lab Sample ID: 18062713-02
Collection Date: 6/26/2018 10:45 AM
Filter/Canister #: EPA017619
Air filter vol (m3):
Filter Strips:
Pressure: 0 psi
SampleType: 24 Hr Composite
Client Info:

Analyte	Result	Value		DF	RL	Qual	Date
2-Hexanone	< 0.100	0.0300	ppbv	1	0.100	U-	6/28/2018
2-Methyl-2-propanol	< 0.500	0.0500	ppbv	1	0.500	U-	6/28/2018
3-Chloropropene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
4-Ethyltoluene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
4-Methyl-2-pentanone	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
Acetone	4.15	4.15	ppbv	1	2.00		6/28/2018
Acrolein	< 0.500	0.260	ppbv	1	0.500	U+	6/28/2018
Acrylonitrile	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
Benzene	0.150	0.150	ppbv	1	0.100		6/28/2018
Benzyl chloride	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
Bromodichloromethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Bromoform	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Bromomethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Carbon disulfide	< 0.500	0.0200	ppbv	1	0.500	U-	6/28/2018
Carbon tetrachloride	0.110	0.110	ppbv	1	0.100		6/28/2018
Chlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
Chloroethane	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
Chloroform	< 0.200	0.0300	ppbv	1	0.200	U-	6/28/2018
Chloromethane	0.940	0.940	ppbv	1	0.100		6/28/2018
cis-1,2-Dichloroethene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
cis-1,3-Dichloropropene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018

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Site: OH-017-AK02
Location: Crawford Str. - AKAA01
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Collector: Mike Kramer Hamilton County
Air Type:
Matrix: Air Canisters
Matrix Type:
Lab/Field Comment: Rush

Lab Sample ID: 18062713-02
Collection Date: 6/26/2018 10:45 AM
Filter/Canister #: EPA017619
Air filter vol (m3):
Filter Strips:
Pressure: 0 psi
SampleType: 24 Hr Composite
Client Info:

Analyte	Result	Value	DF	RL	Qual	Date
Cumene	< 0.100	0.0100	ppbv	1 0.100	U-	6/28/2018
Cyclohexane	< 0.100	0.0400	ppbv	1 0.100	U-	6/28/2018
Dibromochloromethane	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Dichlorodifluoromethane	0.470	0.470	ppbv	1 0.100		6/28/2018
Ethanol	1.82	1.82	ppbv	1 1.00		6/28/2018
Ethyl acetate	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Ethylbenzene	< 0.100	0.0200	ppbv	1 0.100	U+	6/28/2018
Hexachlorobutadiene	< 0.200	0.00	ppbv	1 0.200	U-	6/28/2018
Hexane	0.100	0.100	ppbv	1 0.100	U+	6/28/2018
Isopropyl alcohol	< 2.00	0.510	ppbv	1 2.00	U-	6/28/2018
Methyl methacrylate	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Methyl-butyl ether	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Methylene chloride	< 0.100	0.0900	ppbv	1 0.100	U-	6/28/2018
Naphthalene	< 0.500	0.170	ppbv	1 0.500	U-	6/28/2018
n-Butane	0.830	0.830	ppbv	1 0.100		6/28/2018
n-Heptane	< 0.100	0.0300	ppbv	1 0.100	U-	6/28/2018
n-Nonane	< 0.100	0.0200	ppbv	1 0.100	U-	6/28/2018
n-Pentane	0.280	0.280	ppbv	1 0.100		6/28/2018
n-Propylbenzene	< 0.100	0.0100	ppbv	1 0.100	U-	6/28/2018
o-Chlorotoluene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
o-Xylene	< 0.100	0.0300	ppbv	1 0.100	U+	6/28/2018

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Matrix: Air Canisters
Matrix Type:
Lab/Field Comment: Rush

Lab Sample ID: 18062713-02
Collection Date: 6/26/2018 10:45 AM
Filter/Canister #: EPA017619
Air filter vol (m3):
Filter Strips:
Pressure: 0 psi
SampleType: 24 Hr Composite
Client Info:

Analyte	Result	Value		DF	RL	Qual	Date
Propylene	0.750	0.750	ppbv	1	0.200		6/28/2018
Styrene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
Tetrachloroethylene	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
Tetrahydrofuran	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
Toluene	0.140	0.140	ppbv	1	0.100		6/28/2018
Total m&p-xylenes	< 0.200	0.0500	ppbv	1	0.200	U+	6/28/2018
trans-1,2-Dichloroethene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
trans-1,3-Dichloropropene	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
Trichloroethene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Trichlorofluoromethane	0.230	0.230	ppbv	1	0.200		6/28/2018
Vinyl acetate	0.230	0.230	ppbv	1	0.200		6/28/2018
Vinyl bromide	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
Vinyl chloride	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018

NA = not analyzed